AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1-28 (Canceled).

29. (New) A compound of the general formula R1-AA1-AA2-Pro-AA3-AA4-R2, wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 represents Ala, Gly, Gln, Lys(ClZ) or Asn, AA2 represents Arg(Tos), AA3 represents Ala, AA4 represents Lys(ClZ), and R2 represents OBzl; or wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 represents Ala, AA2 represents Arg(Tos), and AA3, AA4 and R2 together represent Ala-OBzl; or wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 represents Ala, AA2 represents Arg(Tos), and AA3, AA4 and R2 together represent OBzl; or wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 and AA2 together represent Arg(Tos), AA3 represents Ala, AA4 represents Lys(ClZ), and R2 represents OBzl; or wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 and AA2 together represent H, AA3 represents Ala, AA4 represents Lys(ClZ), and R2 represents OBzl; or wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 represents Ala, Gly, Gln, Lys or Asn, AA2 represents Arg, AA3 represents Ala, and AA4 and R2 together represent Lys-OH; or wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 represents Ala, AA2 represents Arg, and AA3, AA4 and R2 together represent Ala-OH; or wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 represents Ala, AA2 represents Arg, and AA3, AA4 and R2 together represent OH; or wherein R1

represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 and AA2 together represent Arg, AA3 represents Ala, and AA4 and R2 together represent Lys-OH; or wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 and AA2 together represent H, AA3 represents Ala, and AA4 and R2 together represent Lys-OH; or wherein R1 represents Boc, AA1 represents Ala, Gly, Gln, Lys(ClZ) or Asn, AA2 represents Arg(Tos), AA3 represents Ala, AA4 represents Lys(ClZ), and R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid benzyl ester-2-yl; or wherein R1 represents Boc, AA1 represents Ala, AA2 represents Arg(Tos), AA3 represents Ala, and AA4 and R2 together represent 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid benzyl ester-2-yl; or wherein R1 represents Boc, AA1 represents Ala, AA2 represents Arg(Tos), and AA3, AA4 and R2 together represent 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid benzyl ester-2-yl; or wherein R1 represents Boc, AA1 and AA2 together represent Arg(Tos), AA3 represents Ala, AA4 represents Lys(ClZ), and R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid benzyl ester-2-yl; or wherein R1 represents Boc, AA1 and AA2 together represent H, AA3 represents Ala, AA4 represents Lys(ClZ), and R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid benzyl ester-2-yl; or wherein R1 and AA1 together represent Ala, Gly, Gln, Lys or Asn, AA2 represents Arg, AA3 represents Ala, AA4 represents Lys, and R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl; or wherein R1 and AA1 together represent Ala, AA2 represents Arg, AA3 represents Ala, and AA4 and R2 together represent 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl; or wherein R1 and AA1 together represent Ala, AA2 represents Arg, AA3 represents Ala, and AA4 and R2 together represent 3S-1,2,3,4- tetrahydro-β-carboline-3-carboxylic acid-2-yl; or wherein R1, AA1 and AA2 together represent Arg, AA3 represents Ala, AA4 represents Lys, and R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl; or wherein R1, AA1 and AA2 together represent H, AA3 represents Ala, AA4 represents Lys, and R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl.

30. (New) The compound of claim 29, wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 represents Ala, Gly, Gln, Lys(ClZ) or Asn, AA2 represents Arg(Tos), AA3 represents Ala, AA4 represents Lys(ClZ), and R2 represents OBzl.

31. (New) The compound of claim 29, wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 represents Ala, AA2 represents Arg(Tos), and AA3, AA4 and R2 together represent Ala-OBzl.

32. (New) The compound of claim 29, wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 represents Ala, AA2 represents Arg(Tos), and AA3, AA4 and R2 together represent OBzl.

33. (New) The compound of claim 29, wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 and AA2 together represent Arg(Tos), AA3 represents Ala, AA4 represents Lys(ClZ), and R2 represents OBzl.

34. (New) The compound of claim 29, wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 and AA2 together represent H, AA3 represents Ala, AA4 represents Lys(ClZ), and R2 represents OBzl.

35. (New) The compound of claim 29, wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 represents Ala, Gly, Gln, Lys or Asn, AA2 represents Arg, AA3 represents Ala, and AA4 and R2 together represent Lys-OH.

36. (New) The compound of claim 29, wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 represents Ala, AA2 represents Arg, and AA3, AA4 and R2 together represent Ala-OH.

37. (New) The compound of claim 29, wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 represents Ala, AA2 represents Arg, and AA3, AA4 and R2 together represent OH.

38. (New) The compound of claim 29, wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 and AA2 together represent Arg, AA3 represents Ala, and AA4 and R2 together represent Lys-OH.

39. (New) The compound of claim 29, wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 and AA2 together represent H, AA3 represents Ala, and AA4 and R2 together represent Lys-OH.

40. (New) The compound of claim 29, wherein R1 represents Boc, AA1 represents Ala, Gly, Gln, Lys(ClZ) or Asn, AA2 represents Arg(Tos), AA3 represents Ala, AA4 represents Lys(ClZ), and R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid benzyl ester-2-yl.

41. (New) The compound of claim 29, wherein R1 represents Boc, AA1 represents Ala, AA2 represents Arg(Tos), AA3 represents Ala, and AA4 and R2 together represent 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid benzyl ester-2-yl.

42. (New) The compound of claim 29, wherein R1 represents Boc, AA1 represents Ala, AA2 represents Arg(Tos), and AA3, AA4 and R2 together represent 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid benzyl ester-2-yl.

43. (New) The compound of claim 29, wherein R1 represents Boc, AA1 and AA2 together represent Arg(Tos), AA3 represents Ala, AA4 represents Lys(ClZ), and R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid benzyl ester-2-yl.

44. (New) The compound of claim 29, wherein R1 represents Boc, AA1 and AA2 together represent H, AA3 represents Ala, AA4 represents Lys(ClZ), and R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid benzyl ester-2-yl.

45. (New) The compound of claim 29, wherein R1 and AA1 together represent Ala, Gly, Gln, Lys or Asn, AA2 represents Arg, AA3 represents Ala, AA4 represents Lys, and R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl.

46. (New) The compound of claim 29, wherein R1 and AA1 together represent Ala, AA2 represents Arg, AA3 represents Ala, and AA4 and R2 together represent 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl.

47. (New) The compound of claim 29, wherein R1 and AA1 together represent Ala, AA2 represents Arg, and AA3, AA4 and R2 together represent 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl.

48. (New) The compound of claim 29, wherein R1, AA1 and AA2 together represent Arg, AA3 represents Ala, AA4 represents Lys, and R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl.

49. (New) The compound of claim 29, wherein R1, AA1 and AA2 together represent H, AA3 represents Ala, AA4 represents Lys, and R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl.

50. (New) A method of preparing a compound of claim 29, wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 represents Ala, Gly, Gln, Lys(ClZ) or Asn, AA2 represents Arg(Tos), AA3 represents Ala, AA4 represents Lys(ClZ), and R2 represents OBzl; or wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 represents Ala, AA2 represents Arg(Tos), and AA3, AA4 and R2 together represent Ala-OBzl; or wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 represents Ala, AA2 represents Arg(Tos), and AA3, AA4 and R2 together represent OBzl; or wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 and AA2 together represent Arg(Tos), AA3 represents Ala, AA4 represents Lys(ClZ), and R2 represents OBzl; or wherein R1 represents 3S-(2-Boc)-1,2,3,4- tetrahydro-β-carboline-3-carboxyl, AA1 and AA2 together represent H, AA3 represents Ala, AA4 represents Lys(ClZ), and R2 represents OBzl; comprising:

a) deprotecting Boc with HCl/CH3CO2C2H5(6 mol/L) from a compound of the general formula Boc-AA1-AA2-Pro-AA3-AA4-OBzl to produce a compound of the general formula H-AA1-AA2-Pro-AA3-AA4-OBzl; wherein AA1 represents Ala, Gly, Gln, Lys(ClZ) or Asn, AA2 represents Arg(Tos), AA3 represents Ala, and AA4 represents

Lys(ClZ); or wherein AA1 represents Ala, AA2 represents Arg(Tos), and AA3, AA4 and R2 together represent Ala-OBzl; or wherein AA1 and AA2 together represent Arg(Tos), AA3 represents Ala, and AA4 represents Lys(ClZ); and

b) coupling a resulting compound of the general formula H-AA1-AA2-Pro-AA3-AA4-OBzl with 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid, to thereby produce a compound of claim 29.

51. (New) The method of claim 50, wherein the method further comprises as step (c) deprotecting the resulting compound with HF, to thereby produce a compound of 29.

52. (New) A method of preparing a compound of claim 29, wherein R1 represents Boc, AA1 represents Ala, Gly, Gln, Lys(ClZ) or Asn, AA2 represents Arg(Tos), AA3 represents Ala, AA4 represents Lys(ClZ), and R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid benzyl ester-2-yl; or wherein R1 represents Boc, AA1 represents Ala, AA2 represents Arg(Tos), AA3 represents Ala, and AA4 and R2 together represent 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid benzyl ester-2-yl; or wherein R1 represents Boc, AA1 represents Ala, AA2 represents Arg(Tos), and AA3, AA4 and R2 together represent 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid benzyl ester-2-yl; or wherein R1 represents Boc, AA1 and AA2 together represent Arg(Tos), AA3 represents Ala, AA4 represents Lys(ClZ), and R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid benzyl ester-2-yl; or wherein R1 represents Boc, AA1 and AA2 together represent H, AA3 represents Ala, AA4 represents Lys(ClZ), and R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid benzyl ester-2-yl; comprising:

a) deprotecting an ester group with NaOH/CH3OH (2 mol/L) from a compound of the general formula Boc-AA1-AA2-Pro-AA3-AA4-OBzl to produce a compound of the general formula Boc-AA1-AA2-Pro-AA3-AA4-OH; wherein AA1 represents Ala, Gly, Gln, Lys(ClZ) or Asn, AA2 represents Arg(Tos), AA3 represents Ala, and AA4 represents Lys(ClZ); or wherein AA1 represents Ala, AA2 represents Arg(Tos), and AA3 and AA4 together represent Ala; or wherein AA1 represents Ala, and AA2, AA3 and AA4 together represent Arg(Tos); or wherein AA1 and AA2 together represent Arg(Tos), AA3 represents Ala, and AA4 represents Lys(ClZ); and

b) coupling a resulting compound of the general formula Boc-AA1-AA2-Pro-AA3-AA4-OH with 3S-1,2,3,4- tetrahydro-β-carboline-3-carboxylic acid benzyl ester, to thereby produce a compound of claim 29.

53. (New) The method of claim 52, wherein the method further comprises as step (c) deprotecting the resulting compound with HF, to thereby produce a compound of 29.

54. (New) A method of treating a thrombus disease, comprising administering to a patient in need thereof a composition comprising a compound of claim 29, wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 represents Ala, Gly, Gln, Lys or Asn, AA2 represents Arg, AA3 represents Ala, and AA4 and R2 together represent Lys-OH; or wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 represents Ala, AA2 represents Arg, and AA3, AA4 and R2 together represent Ala-OH; or wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 represents Ala, AA2 represents Arg, and AA3, AA4 and R2 together represent OH; or wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 and AA2 together represent Arg, AA3 represents Ala, and AA4 and R2 together represent Lys-OH; or wherein R1 represents 3S-(2-Boc)-1,2,3,4-

tetrahydro-β-carboline-3-carboxyl, AA1 and AA2 together represent H, AA3 represents Ala, and AA4 and R2 together represent Lys-OH; or wherein R1 and AA1 together represent Ala, Gly, Gln, Lys or Asn, AA2 represents Arg, AA3 represents Ala, AA4 represents Lys, and R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl; or wherein R1 and AA1 together represent Ala, AA2 represents Arg, AA3 represents Ala, and AA4 and R2 together represent 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl; or wherein R1 and AA1 together represent Ala, AA2 represents Arg, and AA3, AA4 and R2 together represent 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl; or wherein R1, AA1 and AA2 together represent Arg, AA3 represents Ala, AA4 represents Lys, and R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl; or wherein R1, AA1 and AA2 together represent H, AA3 represents Ala, AA4 represents Lys, and R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl.

55. (New) A method of treating a thrombus disease, comprising administering to a patient in need thereof a composition comprising a compound of claim 29, wherein R1 and AA1 together represent Ala, Gly, Gln, Lys or Asn, AA2 represents Arg, AA3 represents Ala, AA4 represents Lys, and R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl; or wherein R1 and AA1 together represent Ala, AA2 represents Arg, AA3 represents Ala, and AA4 and R2 together represent 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl; or wherein R1 and AA1 together represent Ala, AA2 represents Arg, and AA3, AA4 and R2 together represent 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl; or wherein R1, AA1 and AA2 together represent Arg, AA3 represents Ala, AA4 represents Lys, and R2 represents 3S-1,2,3,4-

tetrahydro-β-carboline-3-carboxylic acid-2-yl; or wherein R1, AA1 and AA2 together represent H, AA3 represents Ala, AA4 represents Lys, and R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl.

56. (New) A composition comprising a compound of claim 29 and a pharmaceutically acceptable carrier, wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 represents Ala, Gly, Gln, Lys or Asn, AA2 represents Arg, AA3 represents Ala, and AA4 and R2 together represent Lys-OH; or wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 represents Ala, AA2 represents Arg, and AA3, AA4 and R2 together represent Ala-OH; or wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 represents Ala, AA2 represents Arg, and AA3, AA4 and R2 together represent OH; or wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 and AA2 together represent Arg, AA3 represents Ala, and AA4 and R2 together represent Lys-OH; or wherein R1 represents 3S-(2-Boc)-1,2,3,4-tetrahydro-β-carboline-3-carboxyl, AA1 and AA2 together represent H, AA3 represents Ala, and AA4 and R2 together represent Lys-OH; or wherein R1 and AA1 together represent Ala, Gly, Gln, Lys or Asn, AA2 represents Arg, AA3 represents Ala, AA4 represents Lys, and R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl; or wherein R1 and AA1 together represent Ala, AA2 represents Arg, AA3 represents Ala, and AA4 and R2 together represent 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl; or wherein R1 and AA1 together represent Ala, AA2 represents Arg, and AA3, AA4 and R2 together represent 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl; or wherein R1, AA1 and AA2 together represent Arg, AA3 represents Ala, AA4 represents Lys, and

R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl; or wherein R1, AA1 and AA2 together represent H, AA3 represents Ala, AA4 represents Lys, and R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl.

57. (New) A composition comprising a compound of claim 29 and a pharmaceutically acceptable carrier, wherein R1 and AA1 together represent Ala, Gly, Gln, Lys or Asn, AA2 represents Arg, AA3 represents Ala, AA4 represents Lys, and R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl; or wherein R1 and AA1 together represent Ala, AA2 represents Arg, AA3 represents Ala, and AA4 and R2 together represent 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl; or wherein R1 and AA1 together represent Ala, AA2 represents Arg, and AA3, AA4 and R2 together represent 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl; or wherein R1, AA1 and AA2 together represent Arg, AA3 represents Ala, AA4 represents Lys, and R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl; or wherein R1, AA1 and AA2 together represent H, AA3 represents Ala, AA4 represents Lys, and R2 represents 3S-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid-2-yl.